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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named
Inventor : Xuedong D. Huang

Appln. No. : 10/698,324

Filed : October 31, 2003

For : PERSONAL MOBILE COMPUTING
DEVICE HAVING ANTENNA
MICROPHONE AND SPEECH
DETECTION FOR IMPROVED
SPEECH RECOGNITION

Docket No.: M61.12-0586

Group Art Unit: 2681

Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I HEREBY CERTIFY THAT THIS PAPER IS BEING
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ALEXANDRIA, VA 22313-1450, THIS

25th DAY OF August, 2004.

PATENT ATTORNEY

Sir:

The patents or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 C.F.R. § 1.97. Copies of the patents or publications cited are enclosed, except as waived by the Official Gazette notice of August 5, 2003 regarding copies of U.S. Patents and Published Applications.

TIME OF FILING

The information disclosure statement is being filed with the application or within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. In accordance with 37 C.F.R. § 1.97(b), no statement or fee is required.

METHOD OF PAYMENT

☒ No fee is required.

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The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

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JVK/jme



FORM PTO-1009	Atty. Docket No.: M61.12-0586	Appl. No.: 10/698,324
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Xuedong D. Huang	
	Filing Date October 31, 2004	Group Art: 2681

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	3,746,789	7/1973	Alcivar	179	1	
AB	3,787,641	1/1974	Santori	179	107	
AC	5,054,079	10/1991	Frielingsdorf et al.	381	151	
AD	5,151,944	9/1992	Yamamura	381	151	
AE	5,197,091	3/1993	Takagi et al.	379	433.12	
AF	5,295,193	3/1994	Ono	381	151	
AG	5,404,577	4/1995	Zuckerman et al.	455	66	
AH	5,446,789	8/1995	Loy et al.			
AI	5,555,449	9/1996	Kim	379	433.03	
AJ	5,692,059	11/1997	Kruger	381	151	
AK	5,757,934	5/1998	Yokoi	381	68.3	
AL	5,828,768	10/1998	Eatwell et al.	381	333	
AM	5,933,506	8/1999	Aoki et al.	381	151	
AN	5,943,627	8/1999	Kim et al.	379	426	
AO	5,983,073	11/1999	Ditzik	455	11.1	
AP	6,028,556	2/2000	Shiraki	343	702	
AQ	6,052,464	4/2000	Harris et al.	379	433	
AR	6,052,567	4/2000	Ito et al.	455	90	
AS	6,094,492	7/2000	Boesen	381	312	
AT	6,125,284	9/2000	Moore et al.	455	557	
AU	6,137,883	10/2000	Kaschke et al.	379	433.07	
AV	6,175,633	1/2001	Morrill et al.	381	71.6	
AW	6,243,596	6/2001	Kikinis	429	8	
AX	6,308,062	10/2001	Chien et al.	455	420	
AY	6,339,706	1/2002	Tillgren et al.	455	419	
AZ	6,408,081	6/2002	Boesen	381	312	

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
BA	6,542,721	4/2003	Boesen	455	90	
BB	6,560,468	5/2003	Boesen	455	568	
BC	6,664,713	12/2003	Boesen	310	328	
BD	6,760,600	7/2004	Nickum	455	557	
BE	2002/0198021	12/2002	Boesen	455	556	
EF	2003/0083112	5/2003	Fukuda	455	568	
AG	2003/0125081	7/2003	Boesen	455	556	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AH	EP 0 720 338 A2	7/1996	EPO			
AI	EP 0 854 535 A2	7/1998	EPO			
AJ	EP 0 939 534 A1	9/1999	EPO			
AK	JP 2000196723	7/2000	Japan			Abstract only
AL	WO 93/01664	1/1993	WIPO			
AM	WO 95/17746	6/1995	WIPO			
AN	WO 99/04500	1/1999	WIPO			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	U.S. Patent Application Serial No. 10/629,278, filed July 29, 2003, entitled "MULTI-SENSORY SPEECH DETECTION SYSTEM".
AQ	U.S. Patent Application Serial No. 10/636,176, filed August 7, 2003, entitled "HEAD MOUNTED MULTI-SENSORY AUDIO INPUT SYSTEM".
AR	U.S. Patent Application Serial No. 10/724,008, filed November 26, 2003, entitled "METHOD AND APPARATUS FOR MULTI-SENSORY SPEECH ENHANCEMENT".
AS	U.S. Patent Application Serial No. 10/785,768, filed February 24, 2004, entitled "METHOD AND APPARATUS FOR MULTI-SENSORY SPEECH ENHANCEMENT ON A MOBILE DEVICE".

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	6,675,027	1/2004	Huang	455	575	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	CA	WO 00/45248	8/2000	WIPO			
	CB	WO 00/21194	10/1999	WIPO			
	CC	JP2002125298A2	4/2002	Japan			Abstract Only
	CD	JP2000209688A2	7/2000	Japan			Abstract Only
	CE	JP2002358089A2	12/2002	Japan			Abstract Only
	CF	JP10023123A2	1/1998	Japan			Abstract Only
	CG	JP10023122A2	1/1998	Japan			Abstract Only
	CH	JP8070344A2	3/1996	Japan			Abstract Only
	CI	JP11265199A2	9/1999	Japan			Abstract Only
	CJ	JP8065781A2	3/1996	Japan			Abstract Only
	CK	JP2000261530A2	9/2000	Japan			Abstract Only
	CL	JP3108997A2	5/1991	Japan			Abstract Only
	CM	JP5276587A2	10/1993	Japan			Abstract Only
	CN	JP2000261529A2	9/2000	Japan			Abstract Only
	CO	JP8079868A2	3/1996	Japan			Abstract Only
	CP	JP2000354284A2	12/2000	Japan			Abstract Only
	CQ	JP2000261534A2	9/2000	Japan			Abstract Only
	CR	EP 0 951 883	10/1999	EPO			

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